@AIR TOXICS LTD.

AN ENVIRONMENTAL ANALYTICAL LABORATORY

COMPREHENSIVE VALIDATION PACKAGE

ATL Applications

INVENTORY SHEET

WORK ORDER # 0912276

	Page Nos. From	Page Nos. To
1. Work Order Cover Page & Laboratory Narrative & Table	1	2
2. Sample Results and Raw Data (Organized By Sample)	3	6
a. ATL Sample Results Form		
b. Target Compound Raw Data		
-Internal Standard Area and Retention Time Summary (If Applicable)		
-Surrogate Recovery Summary (If Applicable)		
-Chromatogram(s) and Ion Profiles (If Applicable)		
3. QC Results and Raw Data		
a. Method Blank (Results + Raw Data)	-	-
b. Surrogate Recovery Summary Form (If Applicable)	-	-
c. Internal Standard Summary Form (If Applicable)	-	-
d. Duplicate Results Summary Sheet	-	-
e. Matrix Spike/Matrix Spike Duplicate (Results + Raw Data)	-	-
f. Initial Calibration Data (Summary Sheet + Raw Data)	-	-
g. MDL Study (If Applicable)	-	-
h. Continuing Calibration Verification Data	-	-
i. Second Source LCS (Summary + Raw Data)	-	-
j. Extraction Logs	-	-
k. Instrument Run Logs/Software Verification	7	14
l. GC/MS Tune (Results + Raw Data)	-	-
4. Shipping/Receiving Documents:		
a. Login Receipt Summary Sheet	15	16
b. Chain-of-Custody Records	17	17
c. Sample Log-In Sheet	18	18
d. Misc. Shipping/Receiving Records (list individual records)		
Sample Receipt Discrepancy Report	-	-
5. Other Records (describe or list)		
a. Manual Spectral Defense	-	-
b. Manual Intergrations	-	-
c. Manual Calculations	-	-
d. Canister Dilution Factors	-	-
e. Laboratory Corrective Action Request	-	-
f. CAS Number Reference	19	20
g. Variance Table	-	-
h. Canister Certification	-	-
i. Data Review Check Sheet	21	21

Completed by:

Kara McKiernan	Kara McKiernan/ Document Control	01/04/10
(Signature)	(Print Name & Title)	(Date)

Air Toxics LTD.
Laboratory Services Since 1989

WORK ORDER #: 0912276

Work Order Summary

CLIENT:	Mr. Taeko Minegishi Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494	**BILL TO:**	Accounts Payable Environmental Health & Engineering, Inc. 117 Fourth Avenue Needham, MA 02494
PHONE:	800-825-5343	**P.O. #**	16512
FAX:	781-247-4305	**PROJECT #**	16512
DATE RECEIVED:	12/11/2009	**CONTACT:**	Ausha Scott
DATE COMPLETED:	12/29/2009		

FRACTION #	NAME	TEST
01A	106129	ATL Applications
02A	106130	ATL Applications
03A	106131	ATL Applications
04A	106132	ATL Applications
04AA	106132 Lab Duplicate	ATL Applications
05A	106133	ATL Applications
06A	106134	ATL Applications
07A	106135	ATL Applications
08A	106136	ATL Applications
09A	106145	ATL Applications
10A	Lab Blank	ATL Applications
10B	Lab Blank	ATL Applications
11A	CCV	ATL Applications

CERTIFIED BY: Linda D. Truman

Laboratory Director

DATE: 12/31/09

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180 BLUE RAVINE ROAD, SUITE B FOLSOM, CA - 95630
(916) 985-1000 . (800) 985-5955 . FAX (916) 985-1020

LABORATORY NARRATIVE
ATL GC Application
Environmental Health & Engineering, Inc.
Workorder# 0912276

Nine Radiello 170 (H2S) samples were received on December 11, 2009. The procedure involves adsorption of H2S by zinc acetate to form zinc sulfide. The sulfide is then recovered by extraction with water and addition of ferric chloride in a strongly acidic solution to produce methylene blue. Methylene blue absorbance is then measured at 665 nm using a spectrophotometer. Results are reported in uG and uG/m3.

Sampling rate of 69 mL/min for H2S was provided by the manufacturer.

Receiving Notes

There were no receiving discrepancies.

Analytical Notes

Results were calculated based on 25 deg C without temperature correction. The actual exposure time was used to calculate sample concentrations and reporting limits.

An exposure time of 18720 minutes was used for the QC samples.

All media used for the sampling were supplied by the client. Blank subtraction was not performed on the sample results since the media used for Method Blanks may be from a different lot than the media used for the samples.

Definition of Data Qualifying Flags

Eight qualifiers may have been used on the data analysis sheets and indicate as follows:
B - Compound present in laboratory blank greater than reporting limit.
J - Estimated value.
E - Exceeds instrument calibration range.
S - Saturated peak.
Q - Exceeds quality control limits.
U - Compound analyzed for but not detected above the detection limit.
M - Reported value may be biased due to apparent matrix interferences.
N - The identification is based on presumptive evidence.

File extensions may have been used on the data analysis sheets and indicates as follows:
a-File was requantified
b-File was quantified by a second column and detector
r1-File was requantified for the purpose of reissue

Sample Results and Raw Data

AIR TOXICS LTD.

ATL Application # 59 for RAD 170 (Hydrogen Sulfide)

Spectrophotometer

Field Sample I.D.	Lab Sample I.D.	Collection Date	Analysis Date	Dilution Factor	Reporting Limit (ug)	Reporting Limit (ug/m3)	Amount (ug)	Amount (ug/m3)
106129	0912276-01A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106130	0912276-02A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106131	0912276-03A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106132	0912276-04A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106132 Lab Duplicate	0912276-04AA	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106133	0912276-05A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106134	0912276-06A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106135	0912276-07A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106136	0912276-08A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
106145	0912276-09A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
Method Blank	0912276-10A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
Method Blank	0912276-11A	NA	12/21/2009	1.00	0.80	0.58	ND	ND
							%Rec	
CCV	0912276-12A	NA	12/21/2009	1.00	0.80	0.58	103	

COMMENTS: 1. NA=Not Applicable
2. ND=Not Detected
3. Exposure time of 18720 minutes was assumed for the QC samples.
4. Background subtraction not performed.

Hydrogen Sulfide Radiello Calculation Worksheet

Workorder #:	0912276	
Sampling Rate (ng/ppb.min)	0.096	Typically0.096 for H2S
Sampling T (deg C)	25	Typically 25
Volume (mL)	10.5	Typically 10.5 for H2S
Date of Analysis:	12/21/2009	
Corrected Q	0.096	Takes into account temp

Q includes conversion from Sulfide to H2S

						(Abs-Y-int)xDF / Slope	Conc(ug/mL)xVol (mL)	conc (ug sulfide) *MW H2S / MW Sulfide	Conc (ug) x 1000 / Q x Duration	ppbx mw / 24.45
									T Corrected, no Blank correction	
LabSampleID	Client	Date of Collection	Abs	Duration (min)	DF	Conc (ug/mL) of sulfide	Conc (ug) of sulfide	Conc (ug) of H2S	Conc (ppb) of H2S	Conc (ug/m3) of H2S
01A	106129	NA	0.043	18720	1.00	0.015097688	0.158525723	0.168471272	0.088	0.123
02A	106130	NA	0.050	18720	1.00	0.021867341	0.229607077	0.244012111	0.128	0.178
03A	106131	NA	0.021	18720	1.00	-0.006178364	-0.064872819	-0.068942794	-0.036	-0.050
04A	106132	NA	0.031	18720	1.00	0.003492569	0.036671973	0.03897269	0.020	0.028
04AA	106132 Lab Duplicate	NA	0.027	18720	1.00	-0.000375804	-0.003945944	-0.004193503	-0.002	-0.003
05A	106133	NA	0.065	18720	1.00	0.03637374	0.381924265	0.405885338	0.213	0.296
06A	106134	NA	0.058	18720	1.00	0.029604087	0.310842911	0.330344499	0.173	0.241
07A	106135	NA	0.031	18720	1.00	0.003492569	0.036671973	0.03897269	0.020	0.028
08A	106136	NA	0.031	18720	1.00	0.003492569	0.036671973	0.03897269	0.020	0.028
09A	106145	NA	0.027	18720	1.00	-0.000375804	-0.003945944	-0.004193503	-0.002	-0.003
10A	Method Blank	NA	0.038	18720	1.00	0.010262222	0.107753327	0.11451353	0.060	0.084
11A	Method Blank	NA	0.028	18720	1.00	0.000591289	0.006208535	0.006598045	0.003	0.005
12A	CCV	NA	0.332	18720	1.00	0.294587639	3.093170206	3.28722878	1.721	2.399

QC Duration	CCV Spike Amt
18720	0.286

Verified: HH and AW on 9/4/09

Low PointxDF	RL(ug/mL)xVol (mL)	RL (ug sulfide) *MW H2S / MW Sulfide	Q includes conversion from Sulfide to H2S: RL (ug) x 1000 / Q x Duration	ppbx mw: 24.45

Calibration Data — Calibration Date 12/21/2009 — Linear Regression

T Corrected, no Blank correction

RL(ug/ml) of sulfide	RL (ug) of sulfide	RL (ug) of H2S	RL (ppb) of H2S	RL (ug/m3)	Result (ug) H2S	Result (ug/m3) H2S	%Rec	ug/ml of sulfide	absorbance		
0.072	0.752	0.798966249	0.42	0.583	ND	ND		0	0	Slope	1.034026444
0.072	0.752	0.798966249	0.42	0.583	ND	ND		0.0716	0.089	Y-int	0.027388591
0.072	0.752	0.798966249	0.42	0.583	ND	ND		0.143	0.168	R2	0.998768375
0.072	0.752	0.798966249	0.42	0.583	ND	ND		0.286	0.331		
0.072	0.752	0.798966249	0.42	0.583	ND	ND		0.572	0.643		
0.072	0.752	0.798966249	0.42	0.583	ND	ND		1.145	1.199		
0.072	0.752	0.798966249	0.42	0.583	ND	ND					
0.072	0.752	0.798966249	0.42	0.583	ND	ND					
0.072	0.752	0.798966249	0.42	0.583	ND	ND					
0.072	0.752	0.798966249	0.42	0.583	ND	ND					
0.072	0.752	0.798966249	0.42	0.583	ND	ND					
0.072	0.752	0.798966249	0.42	0.583	ND	ND	%Rec				
0.072	0.752	0.798966249	0.42	0.583	3.28722878	2.399235891	103				

QC Results and Raw Data

Spectrophotometer Logbook **@Air Toxics Ltd.** **Logbook#: 1875**

Work Order: 0912276 **Date:** 12/21/09 **Method:** Rad 170

Analyst: M. Skidmore **Wavelength:** 665nm

Standard ID	Concentration	ABS
Level 1 1925-2-E	0.0716 ug/mL	0.089
Level 2 -D	0.143 ug/mL	0.168
Level 3 -C	0.286 ug/mL	0.331
Level 4 -B	0.572 ug/mL	0.643
Level 5 -A	1.145 ug/mL	1.199
ICV 1925-4	0.286 ug/mL	0.300

r = 0.9988
m = 1.034
b = 0.02739

ICV % Recovery = 92

Fraction	Dilution	ABS	Sample ID	Sample Volume	Comments
01A	1.00	0.043	106129	10.5mL	Lot: 09151
02A		0.050	106130		
03A		0.021	106131		
~~04B~~ 04A		0.031	106132		
04AA		0.027	106132		
05A		0.065	106133		
06A		0.058	106134		
07A		0.031	106135		
08A		0.031	106136		
09A		0.027	106145		
BLK		0.038	N/A		
BLK		0.028			
LCS		0.178			0.133 mg/mL
CCV/ENDCHECK		0.332			0.286 ug/mL
					MJS
					12/21/09

Procedure:

Signed

12/21/09
Date

Spectrophotometer Standard Preparation Log @Air Toxics Ltd. Log Book #: 1858

Standard ID: 1858-86
Project: Ferric Chloride Solution
Analyst: M. Skidmore
Preparation Date: 10/26/09
Expiration Date: 10/26/10

Solvent: D.I. H_2O
Solvent Lot #: N/A

Procedure/Comments: Dissolve 25 g of ferric Chloride hexahydrate (located in ER2C, lot: 73297 MJ) in 10 mL of D.I H_2O.

MJS
10/26/09

Signed 10/26/09 Reviewed 10/26/09

Spectrophotometer Standard Preparation Log **@Air Toxics Ltd.** **Log Book #: 1858**

Standard ID: 1858-93
Project: Rad 170 Amine Solution
Analyst: M. Skidmore
Preparation Date: 12-9/09
Expiration Date: 1/9/09

Solvent: D.I. H_2O
Solvent Lot #: N/A

Procedure/Comments:

Stuff MJS 12/9/09

Sulfuric Acid Solution:

Slowly add 6.25 mL of concentrated sulfuric acid to 2.5 mL of D.I. H_2O, and let the solution cool. (sulfuric acid lot:9339 GTJ).

Amine Solution:

MJS 12/9/09

Dissolve 1.6875g of N,N-dimethyl-p-phenylendiammonium oxalate (located in ER1A; Lot: 63797PJ) in the above mentioned sulfuric acid solution. Dilute this solution to 250 mL with sulfuric acid-water 1:1 v/v. (This is roughly 120 mL H_2O + 120 mL sulfuric acid).

MJS
12/9/09

12/9/09 Date

12/11/09 Date

Spectrophotometer Standard Preparation Log **@Air Toxics Ltd.** **Log Book #:** 1925

Standard ID: 1925-1
Project: Ferric Chloride - Amine Solution Read 170
Analyst: M. Skidmore
Preparation Date: 12/21/09
Expiration Date: 12/21/09

Solvent: D.I. H_2O
Solvent Lot #: N/A

Procedure/Comments: 3.0 mL of ferric chloride solution (1858-86) was added to 15 mL of amine solution (1858-93).

MJS
12/21/09

Signed 12/21/09 Date Reviewed 12/28/09 Date

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1925

Standard ID: 1925-2
Project: ~~M.S~~ MSS Rad 170 calibration
Analyst: M. Skidmore
Preparation Date: 12/21/09
Expiration Date: 12/21/09

Solvent: D.I H_2O
Solvent Lot #: N/A

Procedure/Comments:

Solution A: 2 mL of Code Rad 171 (1476-984, exp 8/6/10) (located in ER1B) with 98 mL of D.I. H_2O = 1.145 µg/mL

Solution B: 2.5 mL of Solution A with 2.5 mL of D.I. H_2O = 0.572 µg/mL

Solution C: 1.25 mL of Solution A with 3.75 mL of D.I. H_2O = 0.286 µg/mL

Solution D: 0.625 mL of Solution A with 4.375 mL of D.I. H_2O = 0.143 µg/mL

Solution E: 0.375 mL of Solution A with 5.625 mL of D.I. H_2O = 0.0716 µg/mL

MSS 12/21/09

Note: Each solution was measured immediately after it was prepared. Solution A is only stable in the flask it was prepared in.

MSS 12/21/09

Signed: [signature] Date: 12/21/09 Reviewed: [signature] Date: 12/28/09

Rev. 8/97

Spectrophotometer Standard Preparation Log

@Air Toxics Ltd. Log Book #: 1925

Standard ID: 1925-3
Project: H_2S LCS Rad 170
Analyst: M. Skidmore
Preparation Date: 12/21/09
Expiration Date: 12/21/09

Solvent: D.I. H_2O
Solvent Lot #: N/A

Procedure/Comments:

A Rad 170 cartridge (lot: 09151) was placed in a 40 mL VOA vial. 10.0 mL of D.I. H_2O was aliquoted into the vial. 1.0 mL of H_2S gas (1476-835, 1000 ppm) was injected into the vial, into the H_2O. The solution was allowed to gently shake for 2 hours. Then 0.5 of the ferric-chloride-amine (1925-1) was added to the vial and capped immediately. The solution was allowed to sit for 30 minutes and the absorbance was measured at 665 nm.

MS 12/21/09

MJS 12/21/09

Signed 12/21/09 Date

Reviewed 12/28/09 Date

Spectrophotometer Standard Preparation Log **@Air Toxics Ltd.** **Log Book #: 1925**

Standard ID: 1925-4
Project: H_2S ICV Rad 170
Analyst: Casey Leaf
Preparation Date: 12/21/09
Expiration Date: 12/21/09

Solvent: DI H_2O
Solvent Lot #: N/A

Procedure/Comments:

Solution A: 2 mL of Code Rad 171 (1476-984, exp 8/6/10) (located in ER1B) with 98 mL of D.I. H_2O = 1.145 µg/mL

Solution C: 1.25 mL of Solution A with 3.75 mL of D.I. H_2O = 0.286 µg/mL

Note: Each solution was measured immediately after it was prepared. Solution A is only stable in the flask it was prepared in.

CLL 12/21/09

CLL 12/21/09

Casey Leaf 12/21/09 Signed Date

Reviewed 12/21/09 Date

0014 of 0021

Shipping/ Receiving Documents

Air Toxics LTD.
Laboratory Services Since 1989

180 Blue Ravine Road, Suite B
Folsom, CA 95630

Phone (916) 985-1000 FAX (916) 985-1020
Hours 8:00 A.M. to 6:00 P.M. Pacific

COMPANY:	Environmental Health & Engineering, Inc.
ATTENTION:	Mr. Taeko Minegishi
FAX #:	781-247-4305
FROM:	Sample Receiving
Workorder #:	0912276
# of pages (Including Cover):	4

1/4/2010

Thank you for selecting Air Toxics Ltd. We have received your samples and have found discrepancies. In order to expedite analysis and reporting, please review the attached information for accuracy. Corrections can be faxed to **Ausha Scott at 916-985-1020.**
ATL will proceed with the analysis as specified on the Chain of Custody and Sample Login page.

In accordance with your company's contract, this account is required to have a PO that is fully executed by both parties which also covers the cost of the workorder before any data can be released. Please ensure that you have given all appropriate information to our Project Manager so that there will be no delay in reporting of the data you are requesting.

Your prompt response is appreciated.

Environmental Health & Engineering, Inc.

CHAIN OF CUSTODY FORM

DATE: 12/9/09

FROM: Environmental Health and Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494-2725 0912276

TO: Air Toxics

Please send invoices to ATTN: Accounts Payable
Please send reports to ATTN: Data Coordinator

In all correspondence regarding this matter, please refer to EH&E Project # 16512

The cost of this analysis will be covered by EH&E Purchase Order # 16512

For EH & E Data Coordinator - URGENT DATA ☐

SAMPLE ID	SAMPLE TYPE	ANALYTICAL METHOD/NUMBER	OTHER:Time/Date/Vol.
01A 106129	Air/Passive	H2S Analysis	13 days
02A 106130	↓	↓	↓
03A 106131			
04A 106132			
05A 106133			
06A 106134			
07A 106135			
08A 106136	↓		↓
09A 106145	MB	↓	0 days

Special Instructions:

☒ Standard turn around time ☐ Rush by _____ date/time ☐ Other _____

☐ Fax results 781-247-4305

☐ **RETURN SAMPLES** ☒ Electronic transfer - datacoordinator@eheinc.com

☒ Additional report recipient bbaker@eheinc.com

Each signatory please return one copy of this form to the above address

Relinquished by: Ivan Truong of Environmental Health & Engineering, Inc. Date: 12/9/09

Received by: Monica Gregoria of (company name) ATL 12/11/09 9TS Date:

Relinquished by: _____ of (company name) _____ Date:

Received by: _____ of (company name) _____ Date:

CUSTODY SEAL INTACT? Y N NONE TEMP AMB

Relinquished by: _____ of (company name) _____ Date:

Received by: _____ of (company name) Fed Ex 6°C Date:

Lab Data
Received by: _____ of Environmental Health & Engineering, Inc. Date:

Page 1 of 1

WHITE-EH&E FILE COPY YELLOW-LAB COPY PINK-PROJECT MANAGER COPY GOLD-DATA COORDINATOR COPY

Air Toxics LTD.
Laboratory Services Since 1989

SAMPLE RECEIPT SUMMARY

WORKORDER 0912276

Client

Mr. Taeko Minegishi
Environmental Health &
Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Sales Rep: TL

Phone

800-825-5343

Fax

781-247-4305

Date Promised: 12/28/09 11:59 pm
Date Completed: 12/31/09
Date Received: 12/11/09
PO#: 16512
Project#: 16512

Total $: $ 495.00
Logged By: MW

Fraction	Sample #	Analysis	Collected	Amount$
01A	106129	ATL Applications	NA	$50.00
02A	106130	ATL Applications	NA	$50.00
03A	106131	ATL Applications	NA	$50.00
04A	106132	ATL Applications	NA	$50.00
04AA	106132 Lab Duplicate	ATL Applications	NA	$0.00
05A	106133	ATL Applications	NA	$50.00
06A	106134	ATL Applications	NA	$50.00
07A	106135	ATL Applications	NA	$50.00
08A	106136	ATL Applications	NA	$50.00
09A	106145	ATL Applications	NA	$50.00
10A	Lab Blank	ATL Applications	NA	$0.00
10B	Lab Blank	ATL Applications	NA	$0.00
11A	CCV	ATL Applications	NA	$0.00
Misc. Charges	eCVP (9) @ $5.00 each.			$45.00

Note: Samples received after 3 P.M. PST are considered to be received on the following work day.
Atlas Project Name/Profile#: CPSC Indoor Air Monitoring/13297

BILL TO: Accounts Payable
Environmental Health & Engineering, Inc.
117 Fourth Avenue
Needham, MA 02494

Analysis Code: Other GC

TERMS:

Reporting Method: ATL Application #59 H2S-Radiello 170

Other Records

Air Toxics LTD.
Laboratory Services Since 1989

Method : ATL Application #59 H2S-Radiello 170

CAS Number	Compound	Rpt. Limit (ug)
7783-06-4	Hydrogen Sulfide	1.2

@Air Toxics Ltd.

DATA REVIEW CHECKLIST

Work Order #: 0912276

A_1	A_2	R	T	M	Q	
☐	☑	☑	☐	☑	☑	Analysis/Reporting vs. Project Profile/SOP requirements checked (i.e. 100% Dups, J-Flag to MDL, etc)
		☑	☐	☑	☐	The final report has the correct reporting list, special units, and header info.
		☐	☐	☑	☐	Lab Narrative is correct (proper method & description/Receiving & Analytical notes correct)
	NA	☐	☐	NA	☐	Sample Discrepancy Report (SDR) is completed
☐	NA	☐	☐	NA	☐	Corrective Action issued - #
☐	NA	☐	☐	☐	☐	Unusual circumstances have been documented in the notes section below

LUMEN *validation report present and initialed* ***CIRCLE (YES (NO)***

☐	☑	☑	☐	☑	☐	Lab Blank, CCV, LCS and DUP met QC criteria
☐	☑	☑	☐	☑	☐	Hold time is met for all samples
		☐	☐	NA	☐	Appropriate data qualifier flags are applied
		☐	☐	NA	☐	Manual integrations for samples and QC are properly documented
☐	☑	☑	☐		☐	Samples analyzed within the project or method specific clock
		☑	☐			Retention times have been verified
☐	☑	☑	☐		☐	Appropriate ICAL(s) included
		☑	☐	NA	☐	At least one result per sample is verified against the target quant sheets/raw data
☐	NA	☑	☐		☐	Dilution factor correctly calculated (sample load volume, syringe and bag dilutions, can pressurization(s))
☐	☑	☐	☐			Correct amount of sample analyzed (i.e. sample not over-diluted)
		☐	☐			Spectra verified - documentation of spectral defense included (Section 5A of eCVP pkg)
		☐	☐			TICs resemble reference spectra
		☐	☐			TICs between duplicate samples are consistent
☐	☑	☑	☐	☑	☐	Checked samples for trends (i.e. Influent vs. Effluent, Field Dups, Field/Trip Blank, etc.)
☐	☑	☐	☐			Data for multiple analyses of sample(s) has been evaluated for comparability of results
		☐		☑		Special units for all samples in the final report are correctly calculated
		☑	☐	☐		Manually entered results checked (i.e. TPH/NMOC)
☐	☑	☑				Chain of Custody verified for any special comments (i.e. different compounds/RLs, action levels)
		☑				Chain of Custody scanned correctly
				☐		Verify sample id's vs. chain of custody
☐		☐				Date MDL(s) performed per instrument(s)
☐	NA	NA				Samples pressurized w/ appropriate gas (N_2 or He) ☐ Other (i.e. Tedlar bag, cartridge, sorbent)
☐	NA	☐				Final pressure consistent with canister size (6L vs. 1L)
☐	NA	☐				Verify receipt pressures
☐	NA	☐				Verify canister ID #'s
		☑		☐		Final invoice amount correct (adjusted for TAT, Penalties, Re-issue Charges etc.)
	NA	☐		NA	☐	Client LUMEN report reviewed for accuracy and completeness
				☑		Final PDF report reviewed for correctness

Notes: *(to include: noting samples with QA/QC problems, Blanks with positive hits, narratives, etc.)*

A/R:

Dup.. OVA

M/Q:

A_1/A_2 (Analytical Review/Date)	R/T (Reporting Review/Date)	M (Management Review/Date)	Q (QA Review/Date)
A_1: [signature]	R: 4/12/29/09	[signature] 12/31/09	
A_2:	T:		

Note (1): Please check all the appropriate boxes. Indicate "NA" for any statement that does not apply. Rev. 11/17/09

Note (2): Management reviewer and reporting reviewer must be separate individuals.